

FIG. 1
STRUCTURE OF THE FIRST EMBODIMENT
OF THE PRESENT INVENTION

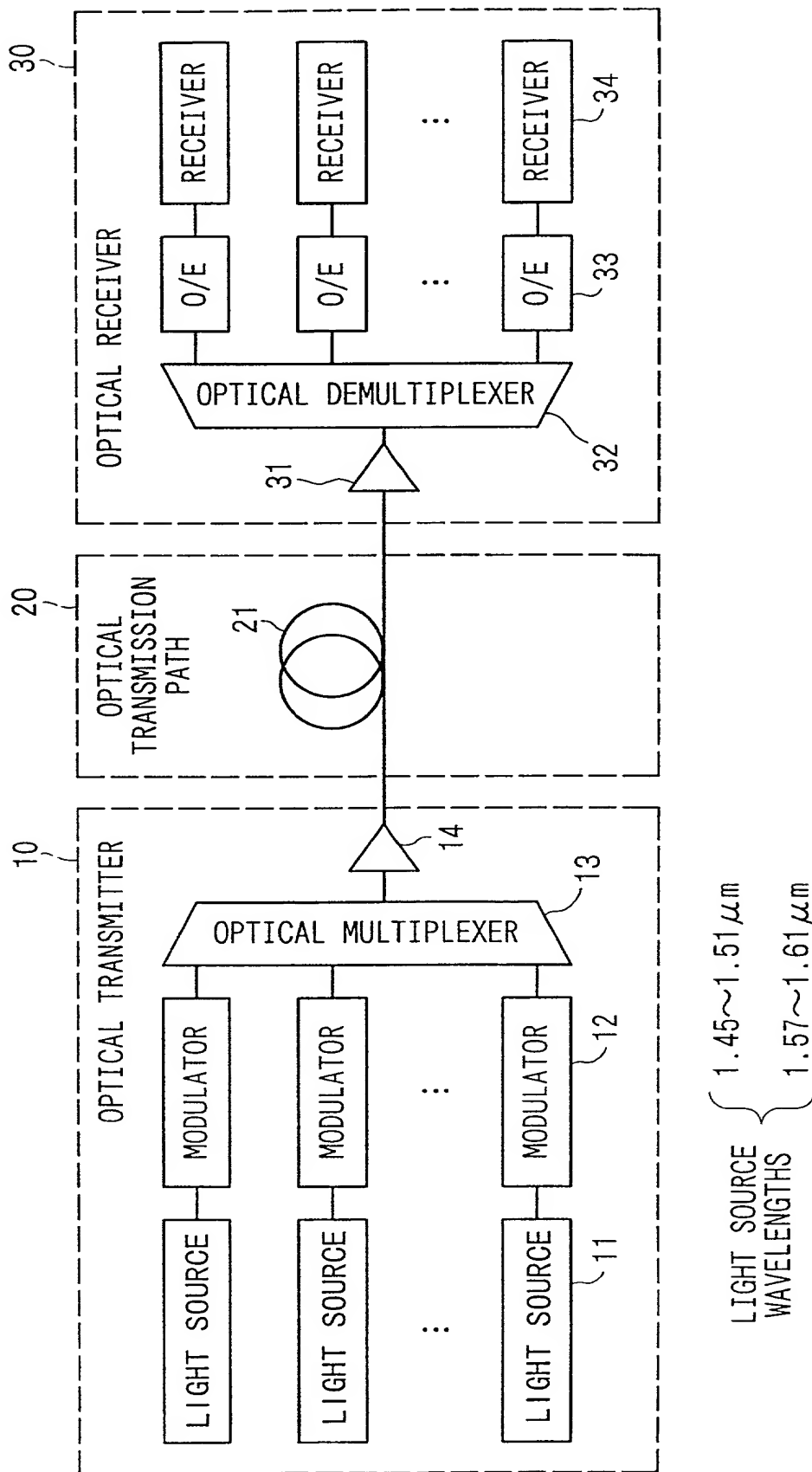


FIG. 2

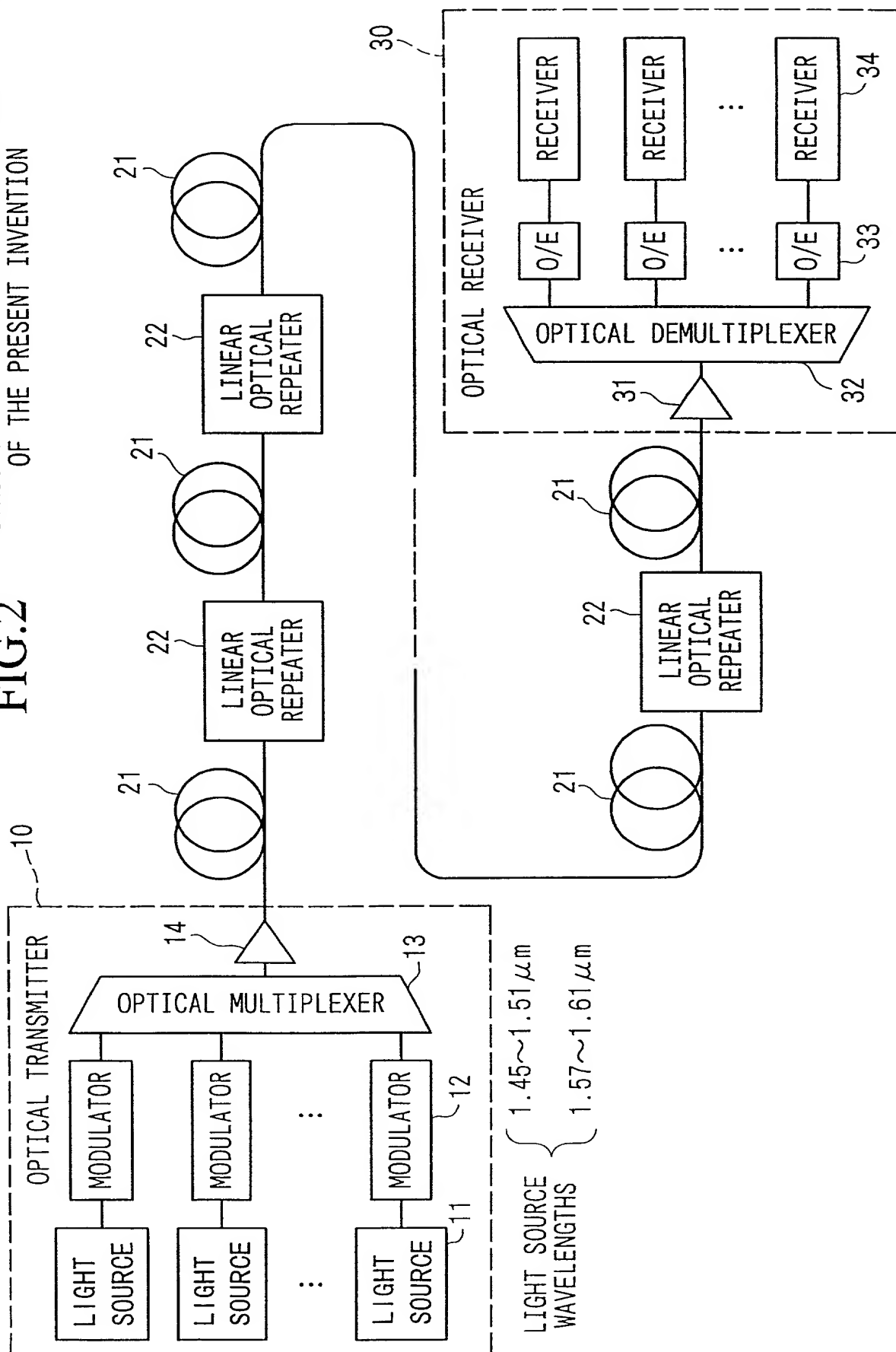


FIG.3

GAIN CHARACTERISTICS OF A Tm-DOPED
OPTICAL FIBER AMPLIFIER (TDFA)

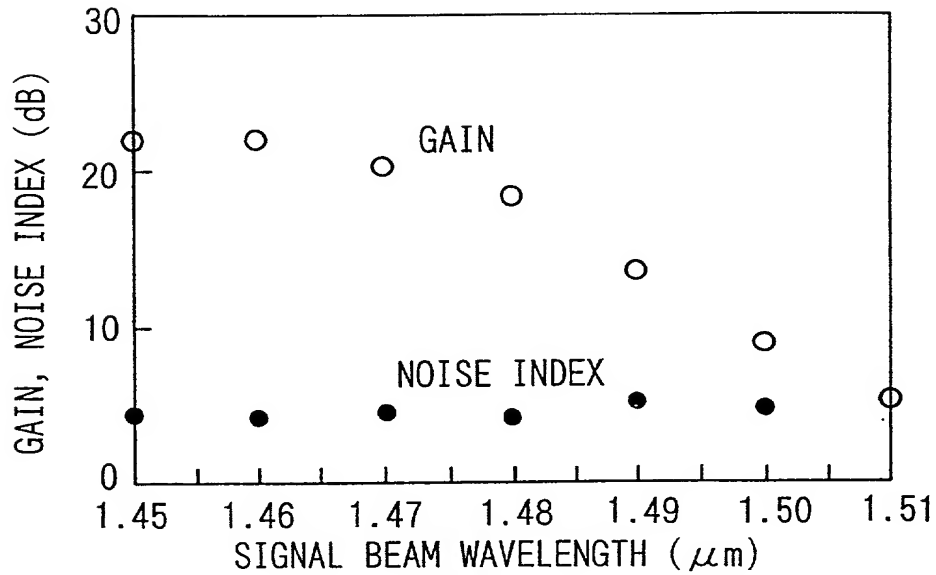
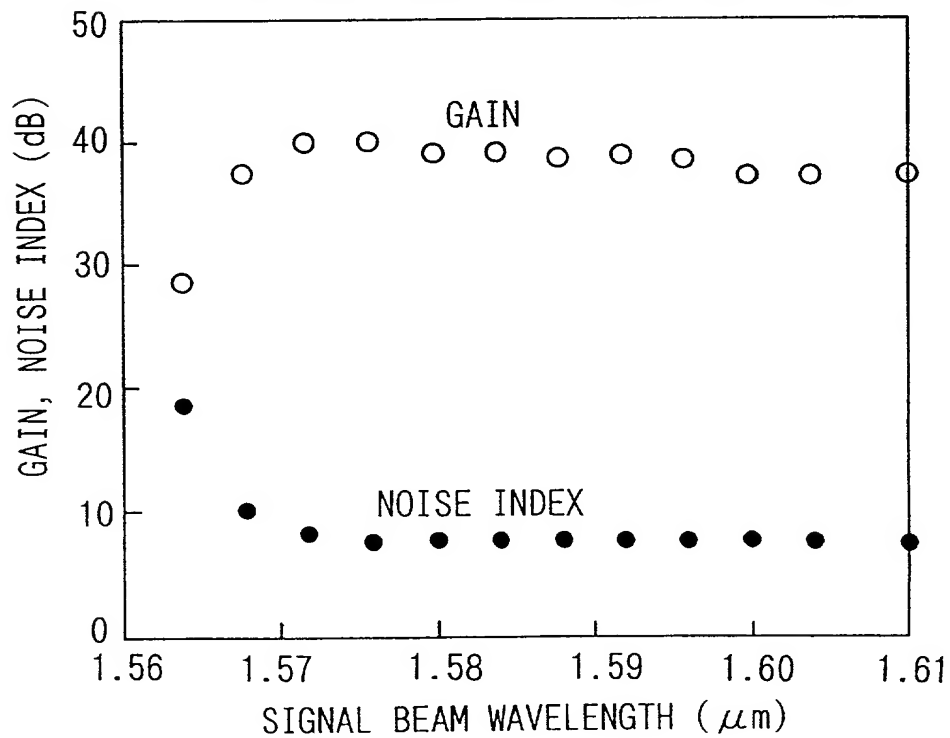


FIG.4

GAIN CHARACTERISTICS OF A Er-DOPED
OPTICAL FIBER AMPLIFIER (GS-EDFA)



STRUCTURE OF THE THIRD EMBODIMENT
OF THE PRESENT INVENTION

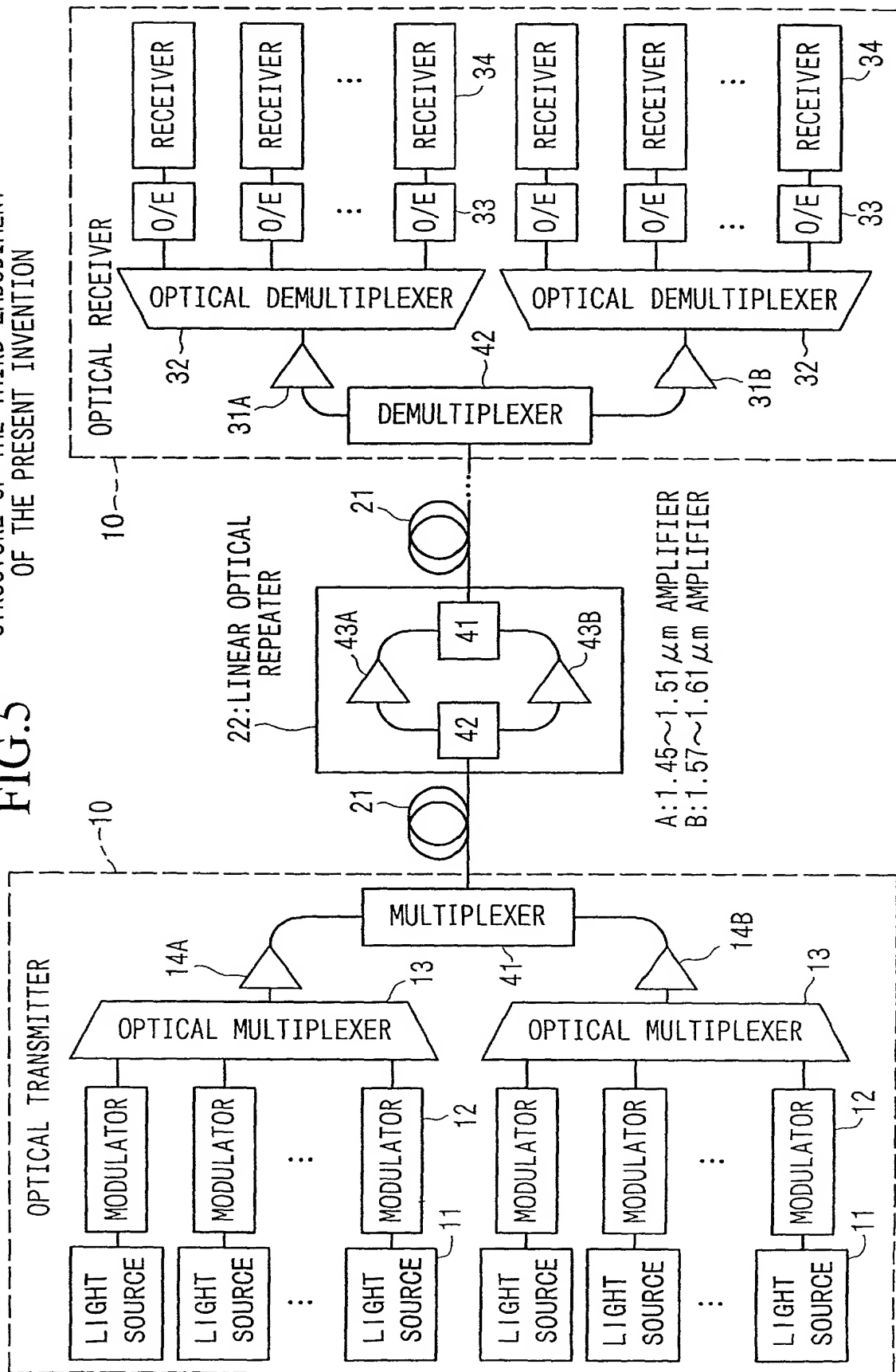


FIG.6

STRUCTURE OF THE FORTH EMBODIMENT
OF THE PRESENT INVENTION

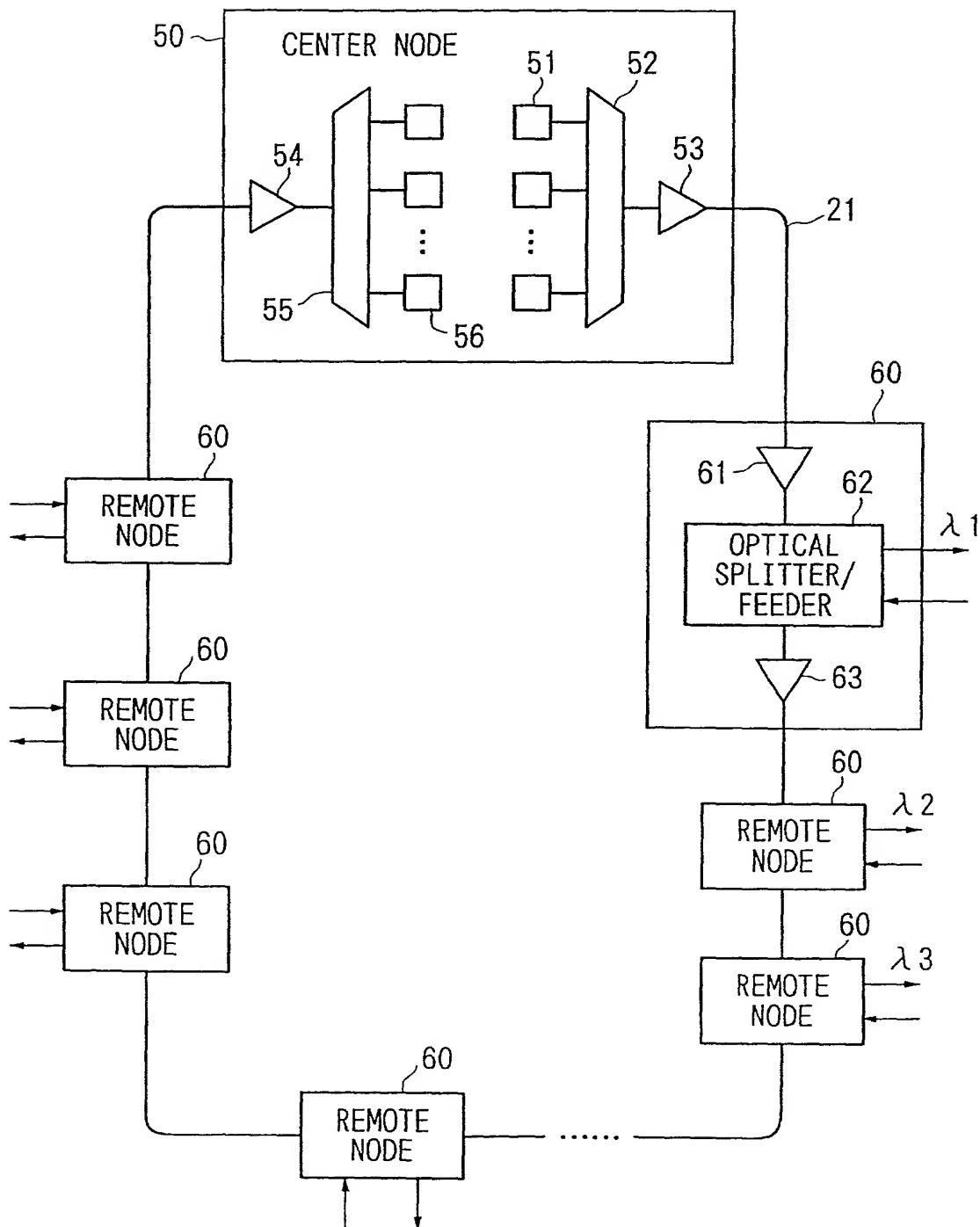


FIG. 7

STRUCTURE OF THE FIFTH EMBODIMENT OF THE PRESENT INVENTION

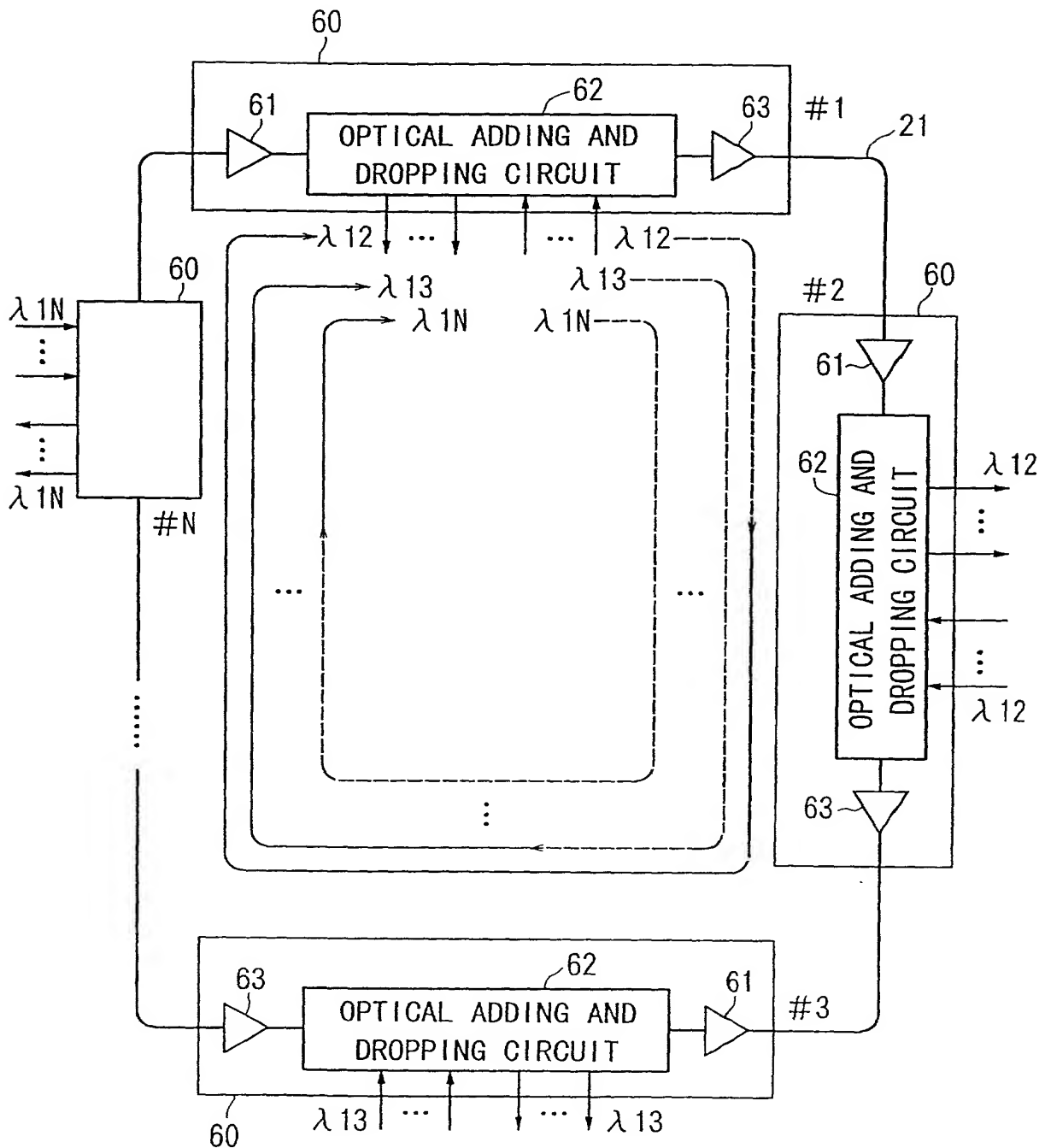


FIG.8

LOSS CHARACTERISTICS OF AN ON-SITE
OPTICAL FIBER FOR COMMUNICATION

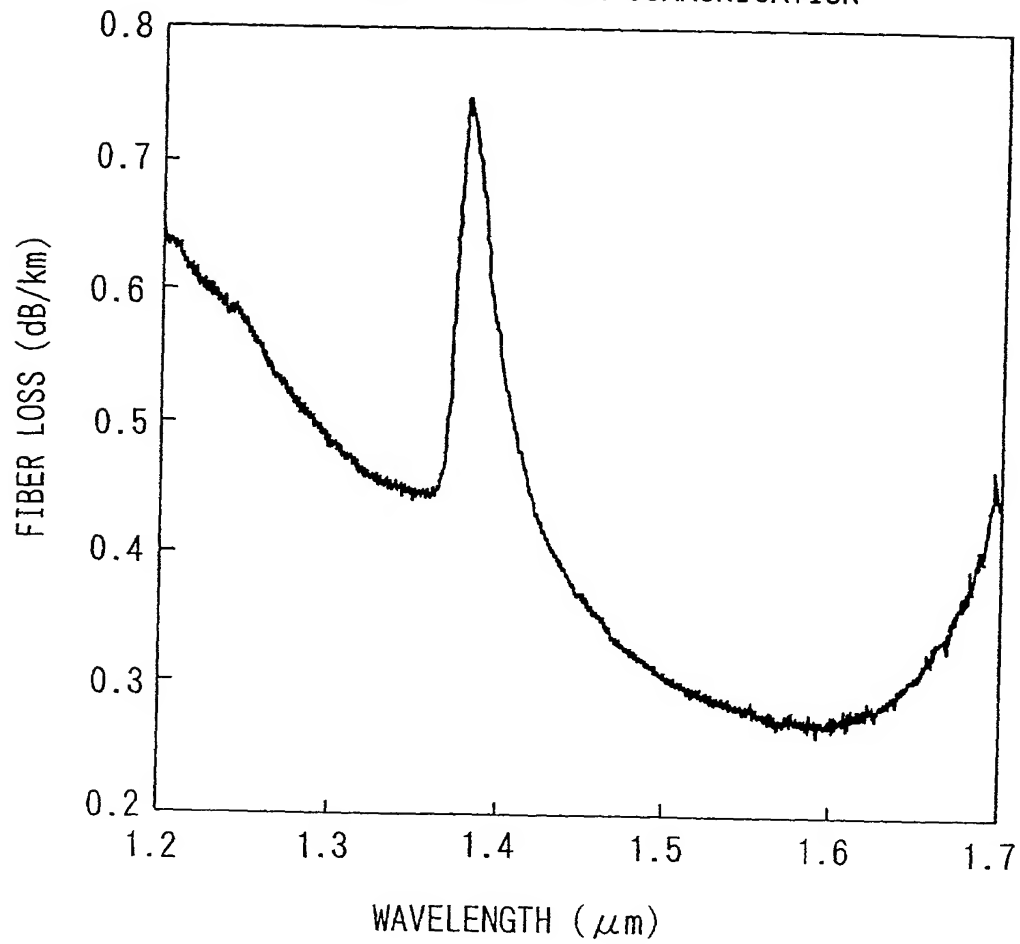


FIG.9

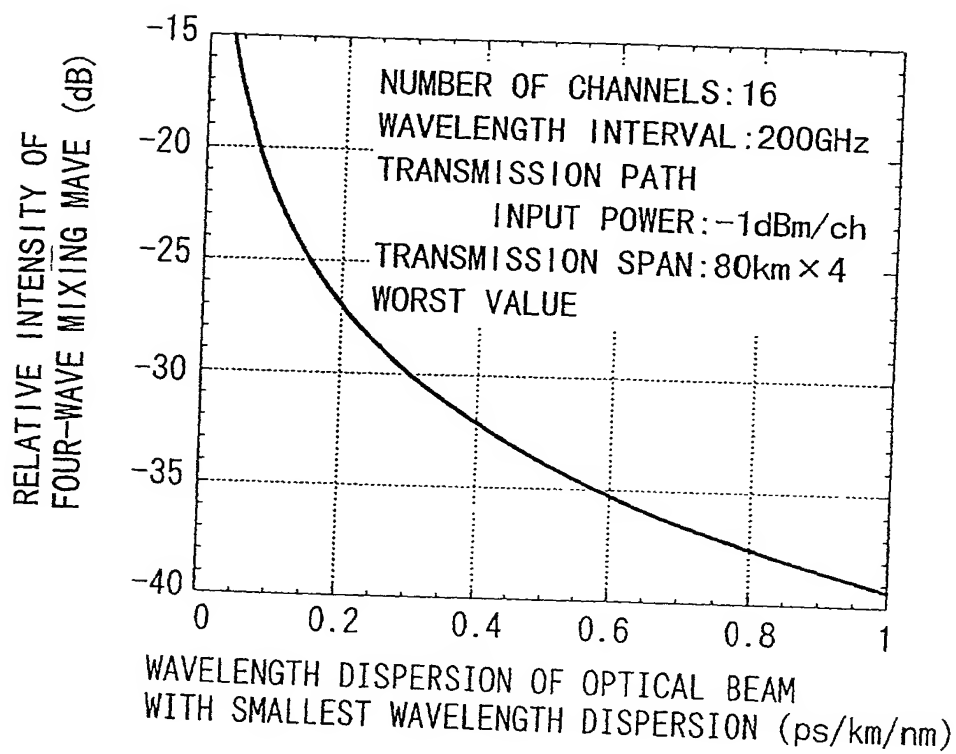


FIG.10

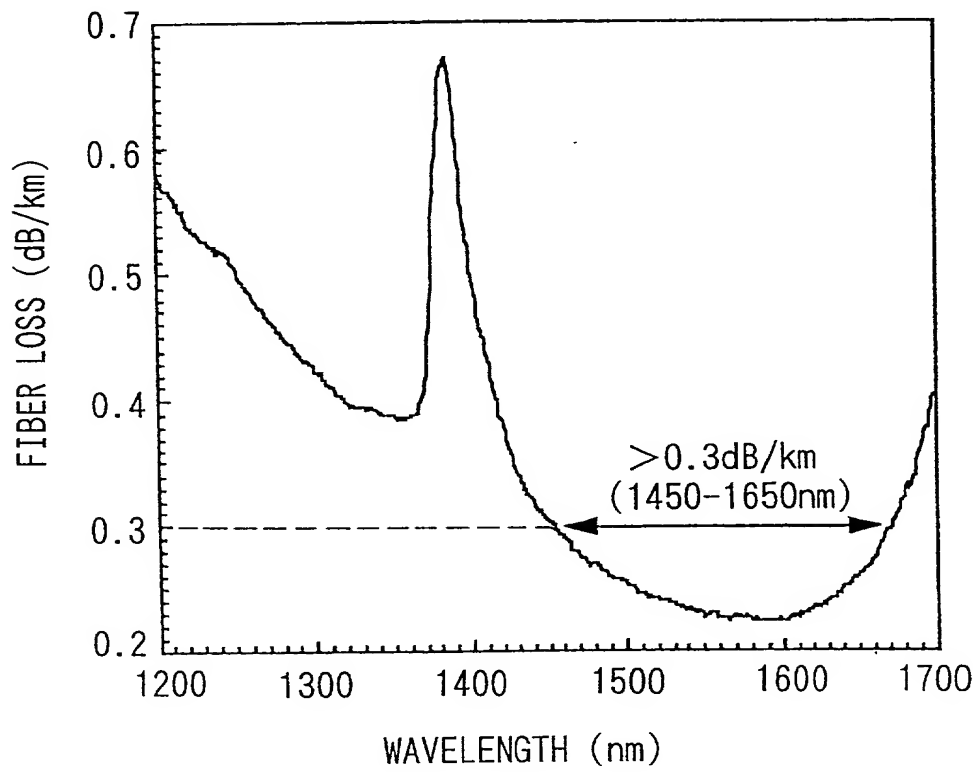


FIG.11

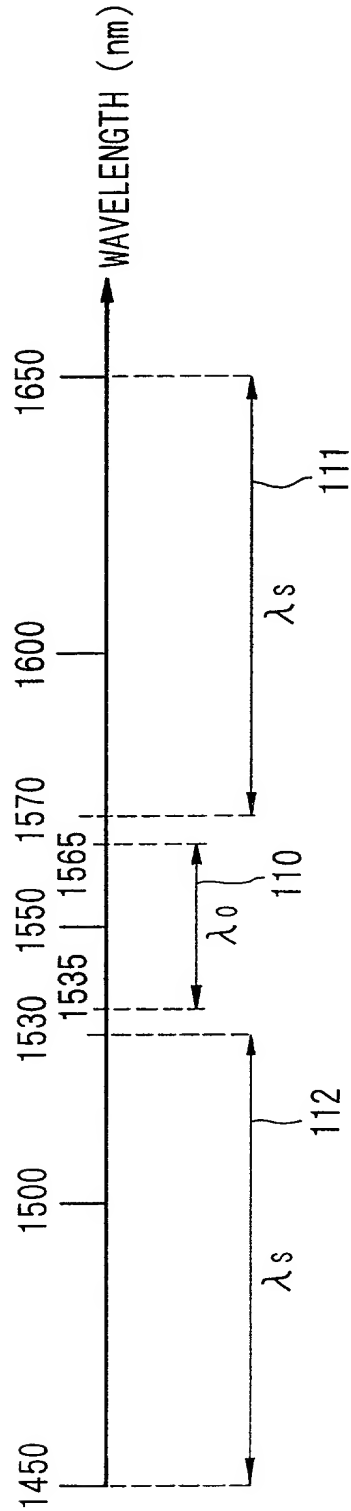


FIG.12

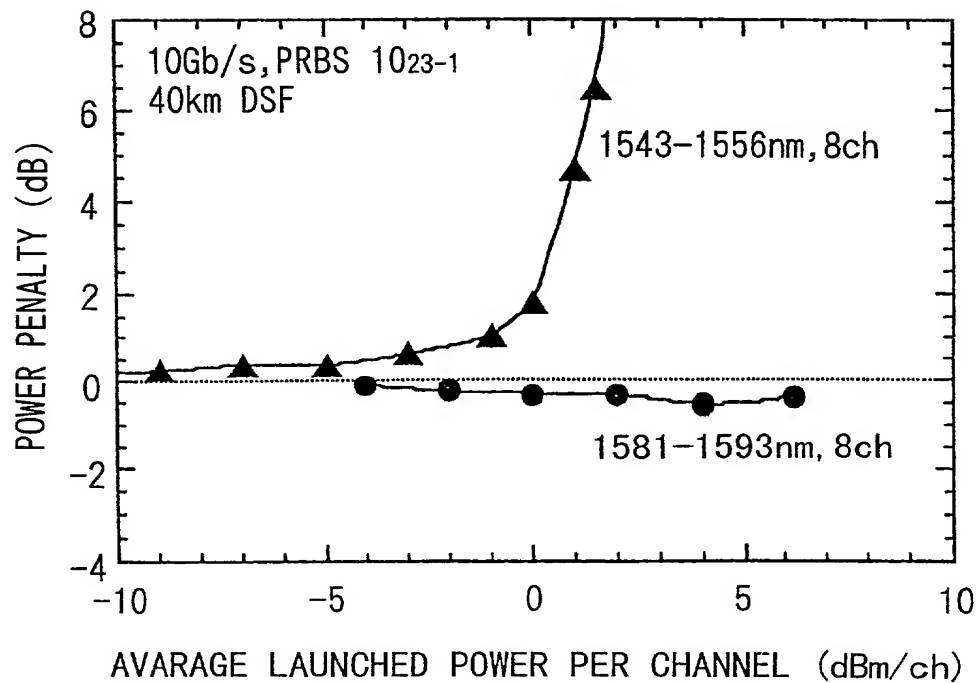
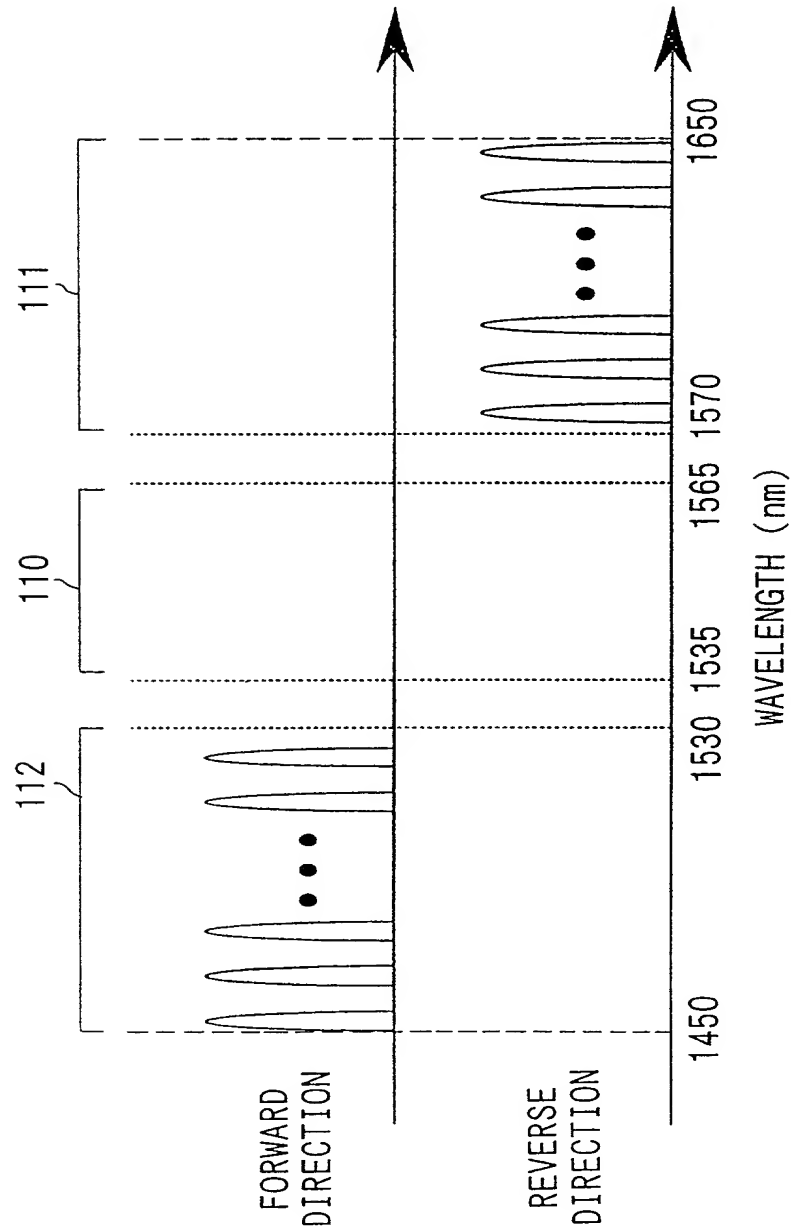


FIG.13



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FIG. 14

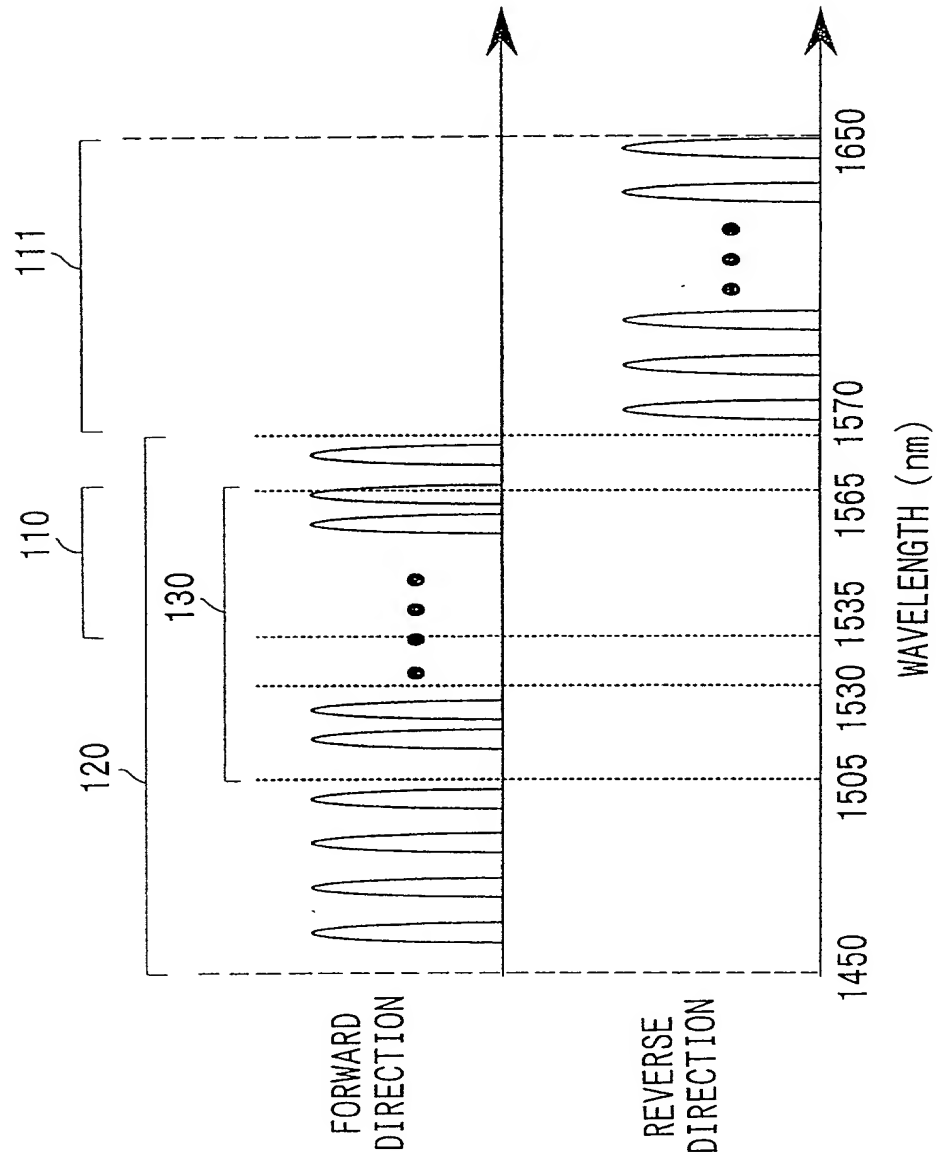


FIG.15

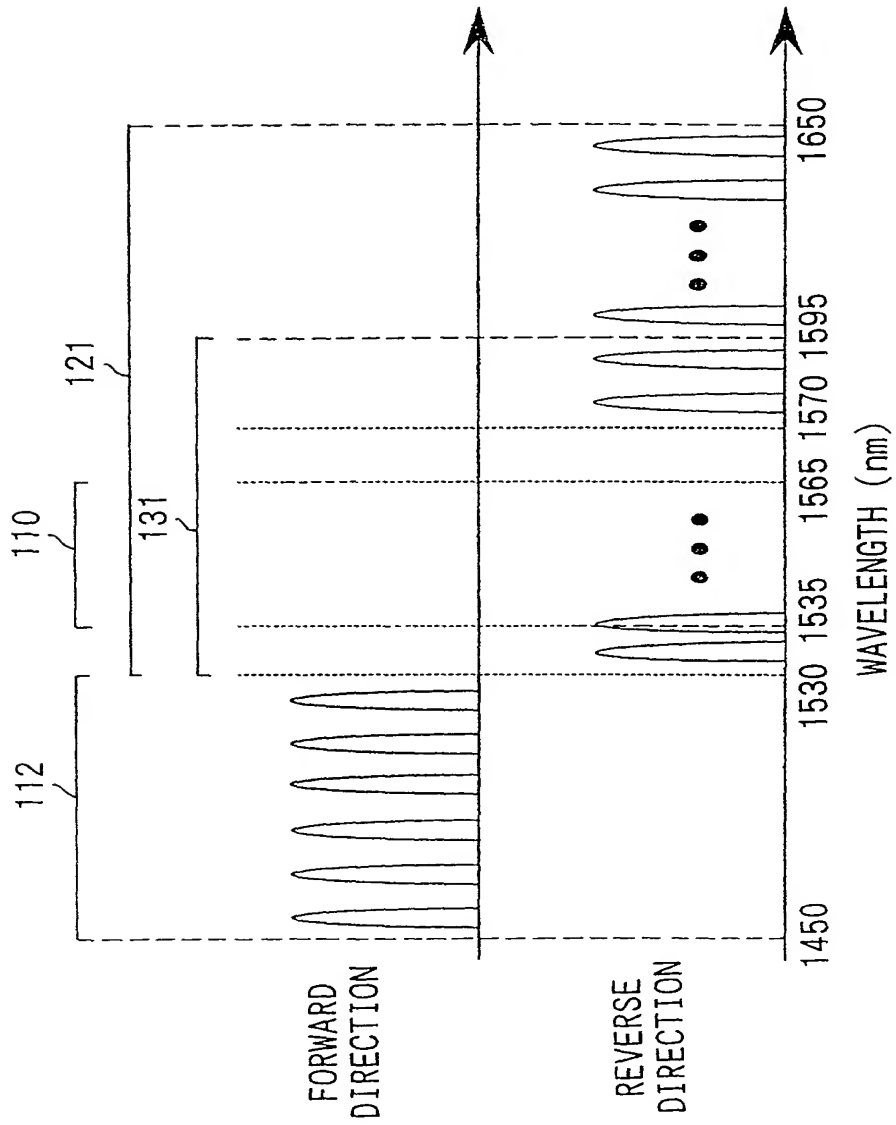
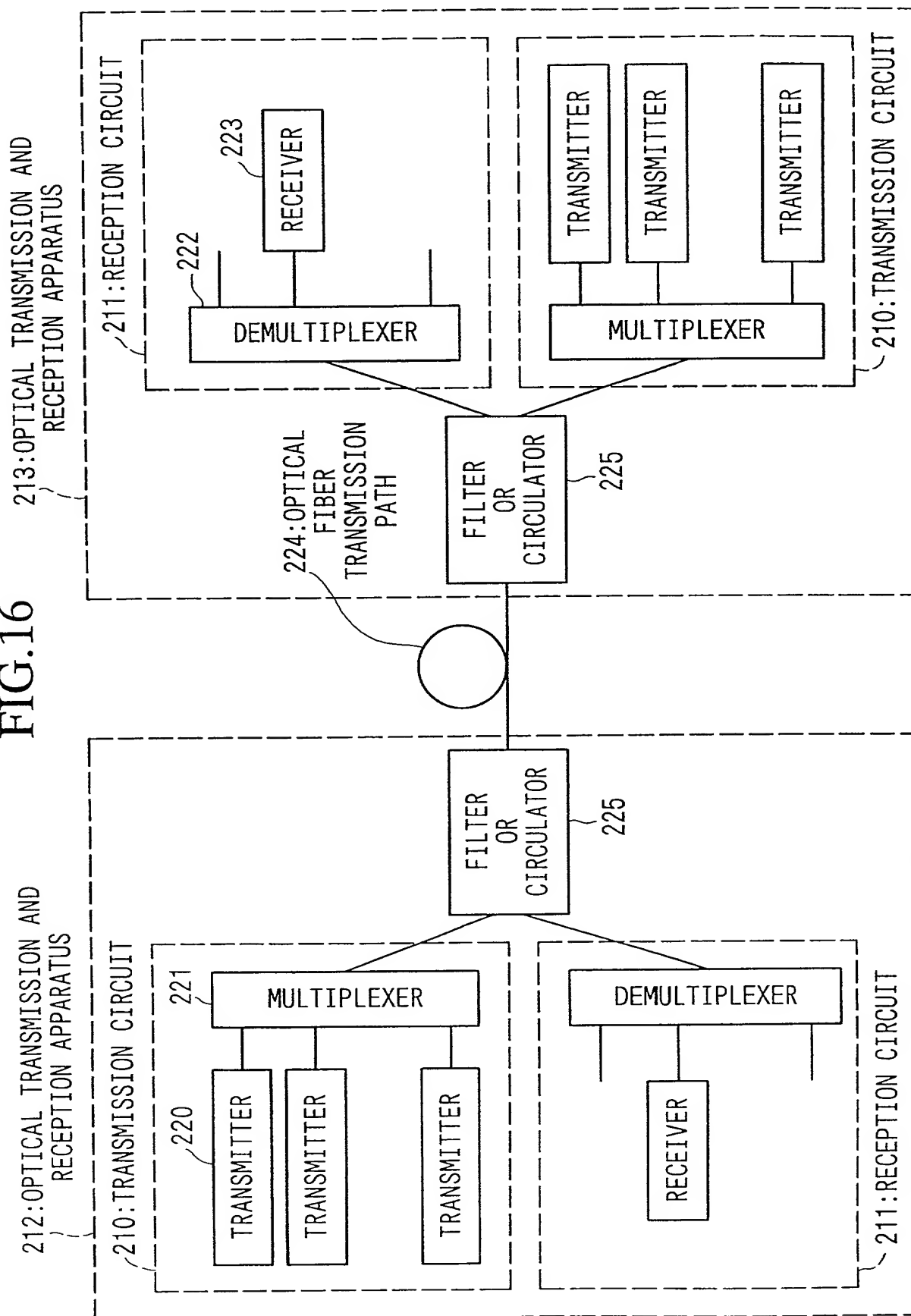


FIG.16



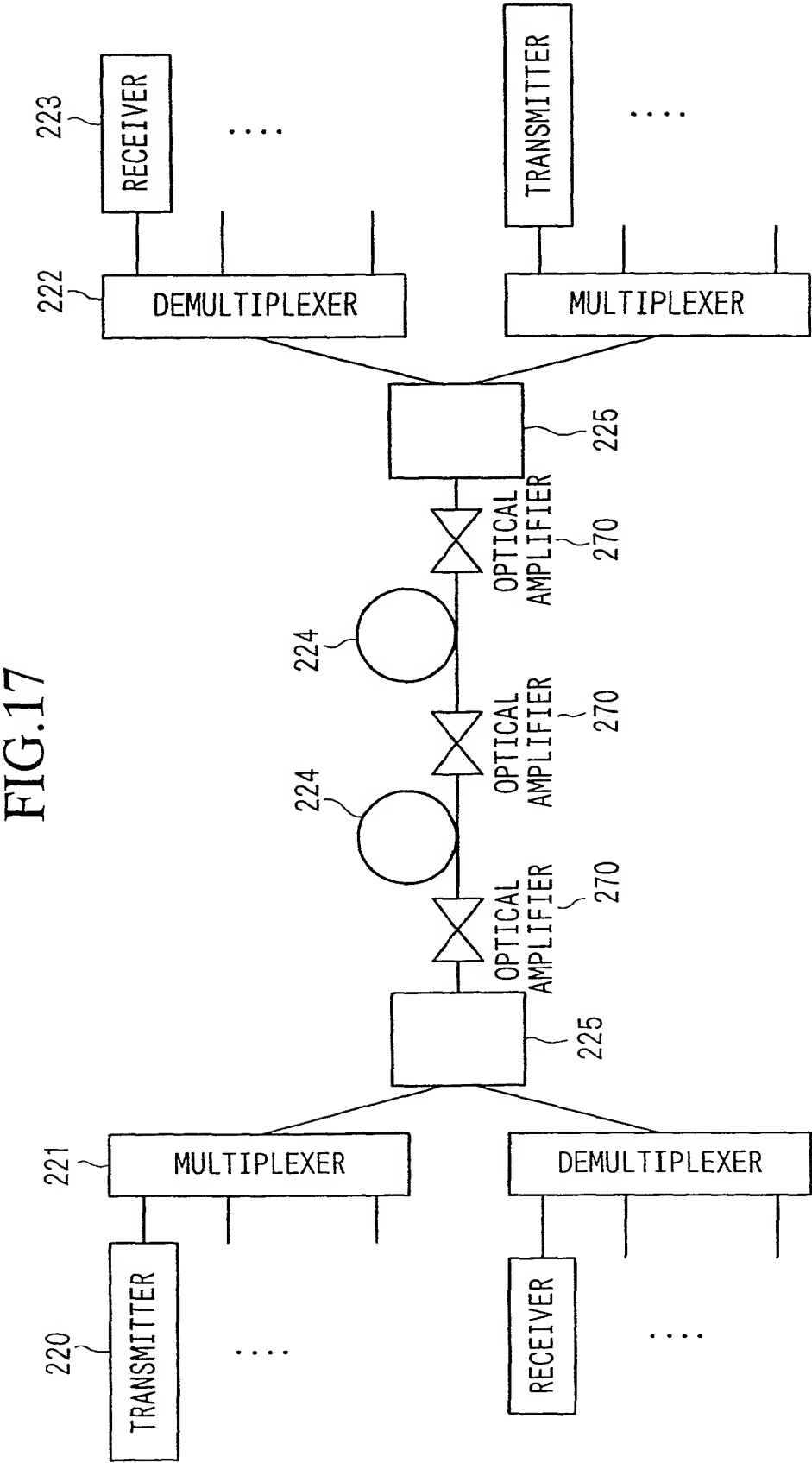


FIG.18

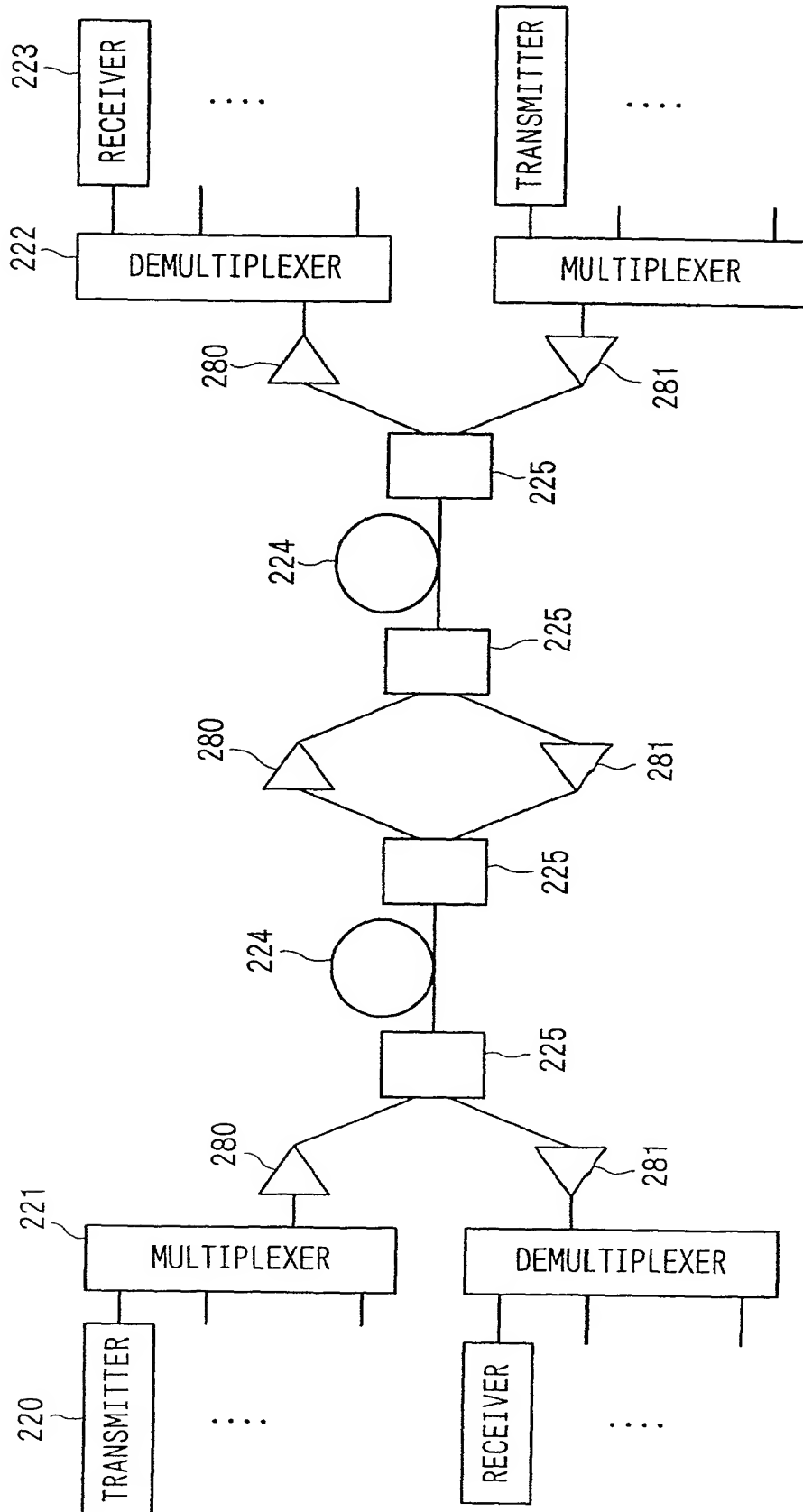
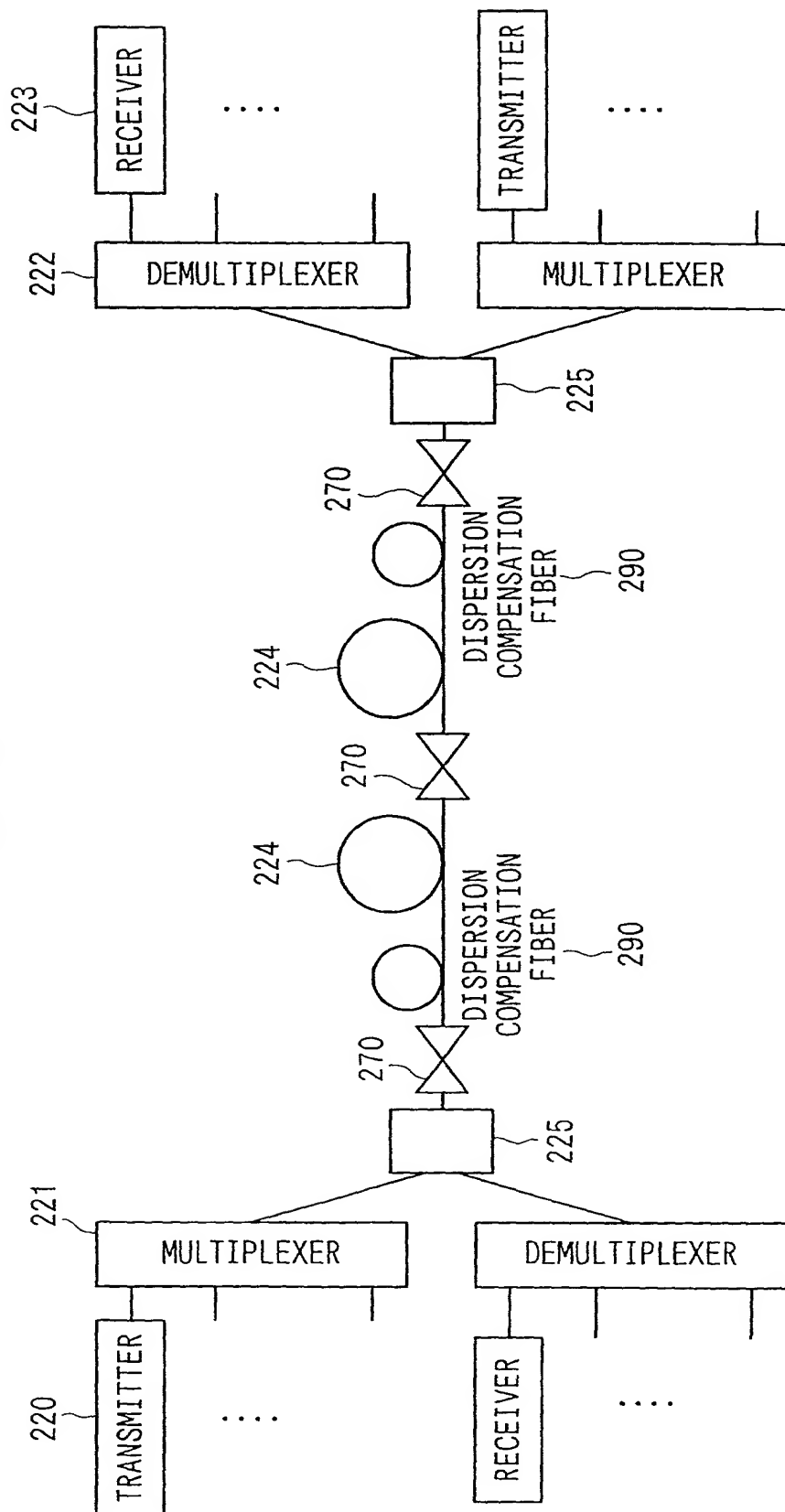


FIG.19



Variable	Mean	Standard deviation	Minimum	Maximum
Age (years)	34.5	10.5	20	55
Gender				
Male	10.5	3.5	0	20
Female	10.5	3.5	0	20
Marital status				
Married	10.5	3.5	0	20
Single	10.5	3.5	0	20
Education level				
High school	10.5	3.5	0	20
College	10.5	3.5	0	20
Postgraduate	10.5	3.5	0	20
Occupation				
Student	10.5	3.5	0	20
Employee	10.5	3.5	0	20
Self-employed	10.5	3.5	0	20
Unemployed	10.5	3.5	0	20
Retired	10.5	3.5	0	20
Other	10.5	3.5	0	20
Income (USD/month)				
< 500	10.5	3.5	0	20
500 - 1000	10.5	3.5	0	20
1000 - 1500	10.5	3.5	0	20
1500 - 2000	10.5	3.5	0	20
> 2000	10.5	3.5	0	20
Health status				
Good	10.5	3.5	0	20
Fair	10.5	3.5	0	20
Poor	10.5	3.5	0	20
Smoking status				
Smoker	10.5	3.5	0	20
Nonsmoker	10.5	3.5	0	20
Alcohol consumption				
Regular	10.5	3.5	0	20
Occasional	10.5	3.5	0	20
Never	10.5	3.5	0	20
Exercise frequency				
Daily	10.5	3.5	0	20
Weekly	10.5	3.5	0	20
Monthly	10.5	3.5	0	20
Never	10.5	3.5	0	20
Stress level				
Low	10.5	3.5	0	20
Medium	10.5	3.5	0	20
High	10.5	3.5	0	20
Depression score				
0 - 10	10.5	3.5	0	20
11 - 20	10.5	3.5	0	20
21 - 30	10.5	3.5	0	20
> 30	10.5	3.5	0	20



FIG. 21

